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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Mon Sep 17 12:19:06 EDT 2007

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Application No: 10517079

Version No: 1.0

Input Set:

Output Set:

Started: 2007-09-07 12:15:41.146

Finished: 2007-09-07 12:19:50.484

Elapsed: 0 hr(s) 4 min(s) 9 sec(s) 338 ms

Total Warnings: 31967

Total Errors: 79

No. of SeqIDs Defined: 31933

Actual SeqID Count: 31933

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

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No. of SeqIDs Defined: 31933
Actual SeqID Count: 31933

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22) This error has occurred more than 20 times, will not be displayed
W 251	Found intentionally skipped sequence in SEQID (150)
W 401	Unrecognized range formatin <222> in SEQID (151)
W 401	Unrecognized range formatin <222> in SEQID (152)
W 401	Unrecognized range formatin <222> in SEQID (153)
W 401	Unrecognized range formatin <222> in SEQID (154)
W 401	Unrecognized range formatin <222> in SEQID (155)
W 401	Unrecognized range formatin <222> in SEQID (156)
W 401	Unrecognized range formatin <222> in SEQID (157)
W 401	Unrecognized range formatin <222> in SEQID (158)
W 401	Unrecognized range formatin <222> in SEQID (159)
W 401	Unrecognized range formatin <222> in SEQID (160)
W 401	Unrecognized range formatin <222> in SEQID (161)
W 401	Unrecognized range formatin <222> in SEQID (162)
W 401	Unrecognized range formatin <222> in SEQID (163)
W 401	Unrecognized range formatin <222> in SEQID (164)
W 401	Unrecognized range formatin <222> in SEQID (165)
W 401	Unrecognized range formatin <222> in SEQID (166)
W 401	Unrecognized range formatin <222> in SEQID (167)
W 401	Unrecognized range formatin <222> in SEQID (168)
W 401	Unrecognized range formatin <222> in SEQID (169)

Input Set:

Output Set:

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No. of SeqIDs Defined: 31933
Actual SeqID Count: 31933

Error code	Error Description
W 401	Unrecognized range formatin <222> in SEQID (170) This error has occured more than 20 times, will not be displayed
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (6690)
W 333	tabs used in amino acid numbering SEQID (11655)
W 251	Found intentionally skipped sequence in SEQID (31840)
W 251	Found intentionally skipped sequence in SEQID (31865)
E 257	Invalid sequence data feature in <221> in SEQ ID (31871)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31871)
E 257	Invalid sequence data feature in <221> in SEQ ID (31872)
E 341	'Xaa' position not defined SEQID (31872) POS (2)
E 257	Invalid sequence data feature in <221> in SEQ ID (31873)
E 257	Invalid sequence data feature in <221> in SEQ ID (31874)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31874)
E 341	'Xaa' position not defined SEQID (31874) POS (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (31878)
E 341	'Xaa' position not defined SEQID (31878) POS (4)
E 257	Invalid sequence data feature in <221> in SEQ ID (31879)
E 341	'Xaa' position not defined SEQID (31879) POS (8)
E 257	Invalid sequence data feature in <221> in SEQ ID (31880)
E 341	'Xaa' position not defined SEQID (31880) POS (4)
E 257	Invalid sequence data feature in <221> in SEQ ID (31883)

Input Set:

Output Set:

Started: 2007-09-07 12:15:41.146
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Total Warnings: 31967
Total Errors: 79
No. of SeqIDs Defined: 31933
Actual SeqID Count: 31933

Error code	Error Description
E 341	'Xaa' position not defined SEQID (31883) POS (2)
E 341	'Xaa' position not defined SEQID (31883) POS (6)
E 341	'Xaa' position not defined SEQID (31883) POS (7)
E 257	Invalid sequence data feature in <221> in SEQ ID (31884)
E 341	'Xaa' position not defined SEQID (31884) POS (2)
E 257	Invalid sequence data feature in <221> in SEQ ID (31885)
E 341	'Xaa' position not defined SEQID (31885) POS (5)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31889)
E 257	Invalid sequence data feature in <221> in SEQ ID (31894)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31894)
E 341	'Xaa' position not defined SEQID (31894) POS (1)
E 341	'Xaa' position not defined SEQID (31894) POS (2)
E 341	'Xaa' position not defined SEQID (31894) POS (4)
E 341	'Xaa' position not defined SEQID (31894) POS (5)
E 341	'Xaa' position not defined SEQID (31894) POS (6)
E 257	Invalid sequence data feature in <221> in SEQ ID (31895)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31895)
E 341	'Xaa' position not defined SEQID (31895) POS (1)
E 341	'Xaa' position not defined SEQID (31895) POS (2)
E 341	'Xaa' position not defined SEQID (31895) POS (3)
E 341	'Xaa' position not defined SEQID (31895) POS (5)

Input Set:

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Actual SeqID Count: 31933

Error code	Error Description
E 341	'Xaa' position not defined SEQID (31895) POS (8) This error has occurred more than 20 times, will not be displayed
E 257	Invalid sequence data feature in <221> in SEQ ID (31896)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31896)
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E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31897)
W 251	Found intentionally skipped sequence in SEQID (31898)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31899)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31909)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31910)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31911)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31912)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31913)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31914)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31915)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31916)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31917)

Input Set:

Output Set:

Started: 2007-09-07 12:15:41.146
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No. of SeqIDs Defined: 31933
Actual SeqID Count: 31933

Error code	Error Description
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31918)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31919)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (31920) This error has occurred more than 20 times, will not be displayed

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<140> 10517079

<141> 2007-09-07

<150> PCT/IB03/03163

<151> 2003-06-18

<150> US 60/391,788

<151> 2002-06-25

<150> SE 0201863-8

<151> 2002-06-18

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 $\langle 210 \rangle$ 1

<211> 21

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<213> Artificial Sequence

<220>

<223> peptide

 $\langle 400 \rangle$ 1

Lys Val Ala Phe Arg Trp Ser Gln Phe Ala Val Arg Lys Ile His Ile

1 5 10 15

Leu Leu Ile Arg Lys

20

$\langle 210 \rangle$ 2

<211> 21

<212> PRT

<213> human

 $\langle 220 \rangle$

<221> TRANSMEM

 $\langle 220 \rangle$

<222> (211) ... (227)

<223> 5H1A receptor

 $\langle 400 \rangle$ 2

Val Ala Phe Arg Trp Ser Gln Phe Ala Val Arg Lys Ile His Ile Leu

1 5 10 15

Leu Ile Arg Lys Ala

<210> 3

<211> 21

<212> PRT

<213> Rat

<220>

<223> 5H1A receptor

<400> 3

Ala Phe Arg Trp Ser Gln Phe Ala Val Arg Lys Ile His Ile Leu Leu

1 5 10 15

Ile Arg Lys Ala Asn

20

<210> 4

<211> 21

<212> PRT

<213> Artificial Sequence

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<223> peptide

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Arg Trp Ser Gln Phe Ala Val Arg Lys Ile His Ile Leu Leu Ile Arg

1 5 10 15

Lys Ala Asn Thr Ser

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<210> 5

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 5

Leu Tyr Ser Phe Leu His Leu Phe Leu Phe Arg Lys Gln Val Ser Gln

1 5 10 15

Leu Asn Ile Arg Lys

20

<210> 6

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 6

Tyr Ser Phe Leu His Leu Phe Leu Phe Arg Lys Gln Val Ser Gln Leu
1 5 10 15
Asn Ile Arg Lys His
20

<210> 7
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 7
Phe Leu His Leu Phe Leu Phe Arg Lys Gln Val Ser Gln Leu Asn Ile
1 5 10 15
Arg Lys His Tyr Ile
20

<210> 8
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<400> 8
Leu His Leu Phe Leu Phe Arg Lys Gln Val Ser Gln Leu Asn Ile Arg
1 5 10 15
Lys His Tyr Ile Ala
20

<210> 9
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<213> Artificial Sequence

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<400> 9
His Leu Phe Leu Phe Arg Lys Gln Val Ser Gln Leu Asn Ile Arg Lys
1 5 10 15
His Tyr Ile Ala Gly
20

<210> 10
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<213> Artificial Sequence

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<400> 10

Gln Lys Asn Phe Leu Trp His Asn Phe His Leu Leu Ile Ala Lys Lys
1 5 10 15
Cys Met Lys Asn Cys
20

<210> 11

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

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<400> 11

Leu Thr Gln Met Gln Tyr Ile Phe Ile Thr Ser Arg Trp Tyr Phe Arg
1 5 10 15
Ala Tyr Asn Leu Lys
20

<210> 12

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<400> 12

Thr Gln Met Gln Tyr Ile Phe Ile Thr Ser Arg Trp Tyr Phe Arg Ala
1 5 10 15
Tyr Asn Leu Lys Arg
20

<210> 13

<211> 21

<212> PRT

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<400> 13

Gln Tyr Ile Phe Ile Thr Ser Arg Trp Tyr Phe Arg Ala Tyr Asn Leu
1 5 10 15
Lys Arg Asn Met Val
20

<210> 14

<211> 21

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Ala Ile Cys Leu Val Ala Val Gly Gln Tyr Phe His Ile Arg Ala Lys
1 5 10 15
Ser Thr Met Lys Arg
20

<210> 18
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<220>
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Glu Ala Arg Phe Leu Tyr Trp Trp Glu Asn Ile Leu Gln Lys Gln Phe
1 5 10 15
Tyr Lys Lys Leu Phe
20

<210> 19
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<400> 19
Ala Arg Phe Leu Tyr Trp Trp Glu Asn Ile Leu Gln Lys Gln Phe Tyr
1 5 10 15
Lys Lys Leu Phe Arg
20

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<213> Artificial Sequence

<220>
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<400> 20
Leu Tyr Trp Trp Glu Asn Ile Leu Gln Lys Gln Phe Tyr Lys Lys Leu
1 5 10 15
Phe Arg Asn Trp Val
20

<210> 21
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 21
Lys Lys Leu Phe Arg Asn Trp Val Arg Trp Ser Trp Ile Met Gly Tyr
1 5 10 15
Cys Cys Arg Ala Arg

<210> 22

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

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<400> 22

Lys Leu Phe Arg Asn Trp Val Arg Trp Ser Trp Ile Met Gly Tyr Cys

1 5 10 15

Cys Arg Ala Arg Ser

20

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<220>

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<400> 23

Leu Phe Arg Asn Trp Val Arg Trp Ser Trp Ile Met Gly Tyr Cys Cys

1 5 10 15

Arg Ala Arg Ser Arg

20

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<400> 24

Arg Asn Trp Val Arg Trp Ser Trp Ile Met Gly Tyr Cys Cys Arg Ala

1 5 10 15

Arg Ser Arg Asn Gly

20

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<211> 21

<212> PRT

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<400> 25

Asn Trp Val Arg Trp Ser Trp Ile Met Gly Tyr Cys Cys Arg Ala Arg
1 5 10 15
Ser Arg Asn Gly Phe
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 26
Trp Val Arg Trp Ser Trp Ile Met Gly Tyr Cys Cys Arg Ala Arg Ser
1 5 10 15
Arg Asn Gly Phe Val
20

<210> 27
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<400> 27
Ser Trp Ile Met Gly Tyr Cys Cys Arg Ala Arg Ser Arg Asn Gly Phe
1 5 10 15
Val Ile Ile Thr Arg
20

<210> 28
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
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<400> 28
Trp Leu Tyr Gly Phe Lys Trp Asn Ala Phe Met Lys Met Arg Val Tyr
1 5 10 15
Cys Val Thr Asn Asn
20

<210> 29
<211> 21
<212> PRT
<213> Artificial Sequence

<220>

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<400> 29

Glu Thr Gln Ile Trp Lys Trp Leu Tyr Ala Thr Val Ile Gln Thr Ala
1 5 10 15
Lys Arg Lys Met Thr
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<210> 30

<211> 21

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<220>

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<400> 30

Thr Gln Ile Trp Lys Trp Leu Tyr Ala Thr Val Ile Gln Thr Ala Lys
1 5 10 15
Arg Lys Met Thr Arg
20

<210> 31

<211> 21

<212> PRT

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<400> 31

Gln Ile Trp Lys Trp Leu Tyr Ala Thr Val Ile Gln Thr Ala Lys Arg
1 5 10 15
Lys Met Thr Arg Ala
20

<210> 32

<211> 21

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<220>

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<400> 32

Lys Trp Leu Tyr Ala Thr Val Ile Gln Thr Ala Lys Arg Lys Met Thr
1 5 10 15
Arg Ala Phe Thr Val
20

<210> 33

<211> 21

<212> PRT

Ile Trp Ile Ile Ile Asn Lys Arg Trp Ser Trp Leu Lys Ile Met Asn
1 5 10 15
Lys Lys Leu Ser Gln
20

<210> 37
<211> 21
<212> PRT
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<400> 37
Val Leu Gln Leu Asn Val His Cys Phe Tyr Trp Gln Lys Asn Trp Lys
1 5 10 15
Ile Met Ala Arg His
20

<210> 38
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<400> 38
Leu Gln Leu Asn Val His Cys Phe Tyr Trp Gln Lys Asn Trp Lys Ile
1 5 10 15
Met Ala Arg His Arg
20

<210> 39
<211> 21
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Ala Val Trp Lys Gln Tyr Phe Val Cys Cys Tyr Phe Tyr Lys Lys Lys
1 5 10 15
Asn Gln Trp Trp Cys
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<210> 40
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1 5 10 15
Trp Cys Asn Leu Leu

<210> 41

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<400> 41

Tyr Phe Val Cys Cys Tyr Phe Tyr Lys Lys Lys Asn Gln Trp Trp Cys

1 5 10 15

Asn Leu Leu Arg Phe

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<210> 42

<211> 21

<212> PRT

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<400> 42

Gly Tyr Gln Ile Gln Phe Ala Lys Ile Lys Met Phe Gln Phe Phe Trp

1 5 10 15

Lys Asn Phe Gly Ala

20

<210> 43

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

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<400> 43

Gln Ile Gln Phe Ala Lys Ile Lys Met Phe Gln Phe Phe Trp Lys Asn

1 5 10 15

Phe Gly Ala Lys Arg

20

<210> 44

<211> 21

<212> PRT

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<400> 44

Lys Ile Lys Met Phe Gln Phe Phe Trp Lys Asn Phe Gly Ala Lys Arg
1 5 10 15
Trp Ile Glu Phe Arg
20

<210> 45
<211> 21
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<400> 45
Ile Asn Arg Tyr Ile Trp Arg Ile Trp Ile Met Thr Tyr Lys Gln Ile
1 5 10 15
Thr Cys Phe Ser Gln
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<210> 46
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Ile Trp Arg Ile Trp Ile Met Thr Tyr Lys Gln Ile Thr Cys Phe Ser
1 5 10 15
Gln Lys Ser Ser Cys
20

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1 5 10 15
Lys Ser Ser Cys Lys
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<400> 48

Asp Ile Gln Trp Ile Asn Trp Ile Lys Leu Ala Arg Lys Gly His Ala
1 5 10 15
Tyr Asn Leu Ser Ser
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<210> 49

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<400> 49

Gln Lys Asn Phe Leu Trp His Asn Phe His Leu Leu Ile Ala Lys Lys
1 5 10 15
Cys Met Lys Asn Cys
20

<210> 50

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<400> 50

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1 5 10 15
Ala Tyr Asn Leu Lys
20

<210> 51

<211> 21

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<400> 51

Thr Gln Met Gln Tyr Ile Phe Ile Thr Ser Arg Trp Tyr Phe Arg Ala
1 5 10 15
Tyr Asn Leu Lys Arg
20

<210> 52

<211> 21

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Glu Ala Ile Cys Leu Val Ala Val Gly Gln Tyr Phe His Ile Arg Ala
1 5 10 15
Lys Ser Thr Met Lys
20

<210> 56
<211> 21
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<400> 56
Ala Ile Cys Leu Val Ala Val Gly Gln Tyr Phe His Ile Arg Ala Lys
1 5 10 15
Ser Thr Met Lys Arg
20

<210> 57
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<220>
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Glu Ala Arg Phe Leu Tyr Trp Trp Glu Asn Ile Leu Gln Lys Gln Phe
1 5 10 15
Tyr Lys Lys Leu Phe
20

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<400> 58
Ala Arg Phe Leu Tyr Trp Trp Glu Asn Ile Leu Gln Lys Gln Phe Tyr
1 5 10 15
Lys Lys Leu Phe Arg
20

<210> 59
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<400> 59
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1 5 10 15
Phe Arg Asn Trp Val

<210> 60

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<400> 60

Lys Lys Leu Phe Arg Asn Trp Val Arg Trp Ser Trp Ile Met Gly Tyr

1 5 10 15

Cys Cys Arg Ala Arg

20

<210> 61

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

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<400> 61

Lys Leu Phe Arg Asn Trp Val Arg Trp Ser Trp Ile Met Gly Tyr Cys

1 5 10 15

Cys Arg Ala Arg Ser

20

<210> 62

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

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<400> 62

Leu Phe Arg Asn Trp Val Arg Trp Ser Trp Ile Met Gly Tyr Cys Cys

1 5 10 15

Arg Ala Arg Ser Arg

20

<210> 63

<211> 21

<212> PRT

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Arg Asn Trp Val Arg Trp Ser Trp Ile Met Gly Tyr Cys Cys Arg Ala
1 5 10 15
Arg Ser Arg Asn Gly
20

<210> 64

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

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<400> 64

Asn Trp Val Arg Trp Ser Trp Ile Met Gly Tyr Cys Cys Arg Ala Arg
1 5